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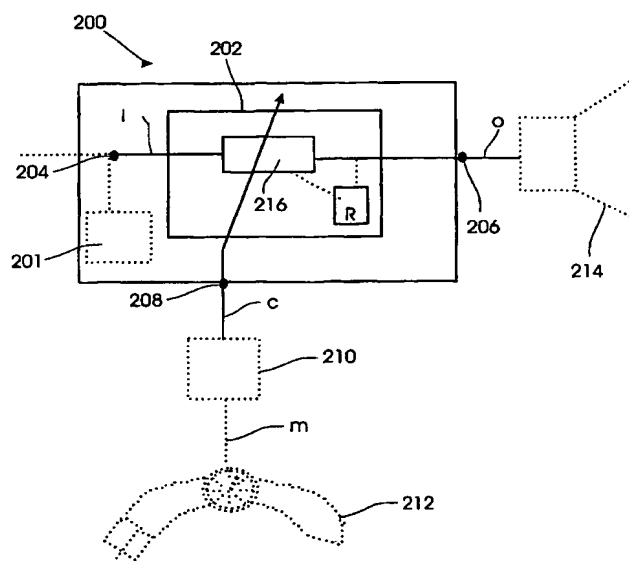
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[Continued on next page]

(54) Title: AUDIO REPRODUCTION APPARATUS, FEEDBACK SYSTEM AND METHOD



(57) Abstract: The audio reproduction apparatus comprises a cost input for inputting a mathematical cost derived from a measurement, which measurement is user-influenceable and a conditioning unit, capable of delivering an output audio signal in dependence of the mathematical cost, characterized in that the conditioning unit comprises an audio processing means arranged to process an input audio signal to derive the output audio signal with a reproduction quality in dependence of the mathematical cost. As a reproduction quality the position of a virtual sound source and the quality of a stereo signal are also possible. A system comprising the audio reproduction apparatus, a measurement device and a sound production device and a method of deriving the output audio signal with a reproduction quality in dependence of the mathematical cost are also presented.

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13, 30 November 1998 (1998-11-30) - & JP 10 207340 A (SONY CORP), 7 August 1998 (1998-08-07)	1, 2, 5, 9, 11, 12, 14, 15
A	abstract  figures 2-6	3, 4, 6-8, 10, 13
Y	US 6 195 434 B1 (CASHION TERRY ET AL) 27 February 2001 (2001-02-27) column 1, lines 12-17 column 1, line 59 - column 2, line 14 column 2, line 51 - column 5, line 50 column 6, line 39 - column 8, line 54 column 9, line 23 - column 10, line 43  ----- -/--	1-15



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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 110 918 A (FEE JAMES F ET AL) 5 September 1978 (1978-09-05) column 1, lines 6-13 column 1, line 58 - column 2, line 10 column 2, lines 26-60 column 3, line 14 - column 5, line 34 column 6, lines 47-63	1-15
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 25, 12 April 2001 (2001-04-12) -& JP 2001 212240 A (SKY COM:KK), 7 August 2001 (2001-08-07) abstract	1-15
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